BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 1400000.00

Name of Work: Detailed Estimate for the work of Improvements to roads and construction of drains at Maruthinagara surrounding areas in ward No - 01 of Yelahanka Sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1 Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3, No 138/ Item No 19.1/ PWD SR 2014-15	cum							
	berm cutting 1st c main road		2	125.00	1.00	0.45	112.50		
	4th cross		2	45.00	1.00	0.40	36.00		
	Cross road 1		2	60.00	1.00	0.40	48.00		
	Cross road 2		2	75.00	1.00	0.35	52.50		
	Cross road 3		2	60.00	1.00	0.40	48.00		
	Desilting 4th cross		2	45.00	0.45	0.30	12.15		
	Cross road 1		2	60.00	0.45	0.30	16.20		
	Cross road 2		2	75.00	0.45	0.30	20.25		
	Cross road 3		2	60.00	0.45	0.25	13.50		
							359.10	**75.60**	**27148.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification No. KBS 2.1(a) / 2.3.5, No 5/ Item No. 2.3/ PWD SR 2014-15	cum							
	RCC drain		1	95.00	1.00	1.00	95.00		
	Culvert		3	6.00	1.50	1.20	32.40		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							127.40	176.04	22427.00
	Basic Rate	163.00							
	Area Weightage @ 8%	13.04							
	Total	176.04							
3	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2014-15)	cum							
				Vide Item No. 1+2			486.50	79.10	38482.00
	Basic Rate for loading and unloading	63.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2 X 4	10.24							
		73.24							
	Area Weightage @ 8%	5.86							
	Total	79.10							
4	KSRB-4-1.2 Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement at 220kgs. with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed concrete laid in layers not exceeding 15cms. thick, well compacted in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No KBS 4.1.4.2 No 12/ Item No 4.2/ PWD SR 2014-15	Cum							
	RCC drain		1	95.00	1.00	0.15	14.25		
	for culvert		3	5.00	1.50	0.15	4.05		
							18.30	5064.12	92673.40
	Basic Rate	4689.00							
	Area Weightage @ 8%	375.12							
	Total	5064.12							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 4.2.2 Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplasticisin @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc** including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1.4.6, No KBS 4.1.4.6, No 13/ Item No. 4.11/ PWD SR 2014-15	Cum							
	for RCC drain		1	95.00	0.90	0.15	12.83		
	side walls		2	95.00	0.15	0.90	25.65		
	for culvert bod		3	6.00	1.20	0.15	3.24		
	side walls		6	6.00	0.23	0.90	7.45		
	deck		3	6.00	1.20	0.23	4.97		
	culvert ramp	3x2	6	6.00	0.80	0.20	5.76		
							59.90	6065.28	363280.00
	Basic Rate	5616.00							
	Area Weghtage @ 8%	449.28							
	Total	6065.28							
6	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hocks and wastage shall not be measured and paid) cost pf matenals, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No 19/ Item No. 4.46/ PWD SR 2014-15	Quintal							
	90 kg/cum for rcc drain		0.900	38.48			34.63		
	100kg/cum for culvert		1.000	15.66			15.66		
				54.14			50.29	7254.80	364826.00
	Basic Rate	7254.80							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 4-6-4 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bitresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4 6 2 Page No. 15/ Item No. 4.31/ PWD SR 2014-15	sqm							
	rcc drain	1x4	4	95.00	0.90		342.00		
	culvert	3x4	12	6.00	0.90		64.80		
	deck	1x3	3	6.00	1.20		21.60		
	side	2x3	6	6.00	0.23		8.28		
							436.68	292.68	127808.00
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	292.68							
8	RCC Precast covering slab for drain (10cm thick)	sqm							
	Existing drain		2	30.00	0.75		45.00		
	rcc drain		1	95.00	0.75		71.25		
							116.25	1498.00	174143.00
	Rate Approved by BBMP	1498.00							
9	KSRB M600.6 cement concrete pavement construction unreinforced plain cement concrete pavement thickness as per design over a prepared sub base with 43 grade cement or any other type as per Clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.5 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,) spreading the concrete with shovels /rackers compacted using needle, screed and plate vibrator and finishes in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, asbest primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.40cum) . No. 171/ Item No. 22.6.1 SR 2014-15	Cum							
	for CC road		1	20.00	3.10	0.10	6.20		
							6.20	5896.80	36560.00
	Basic Rate	5460.00							
	Area Weightage @ 8%	436.80							
	Total	5896.80							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials,. Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. do- for concrete pavement Item no 22.8.1 Page No 178 SR 2014-15	Rmt					15.50		
	for cc road		05	3.10			~~77.50~~		1925.10
							~~77.50~~	124.20	~~9626.00~~
	Basic Rate	115.00					15.50		
	Area Weightage @ 8%	9.20							
	Total	124.20							
							Sub Total		1248726.00
11	KRIDL Charges + Labourcess 11%								137360.00
12	1% of Quality control charges								12487.00
13	Miscellaneous charges								1427.00
								Total	1400000.00
	(Rupees Forteen Lakhs Only)								

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

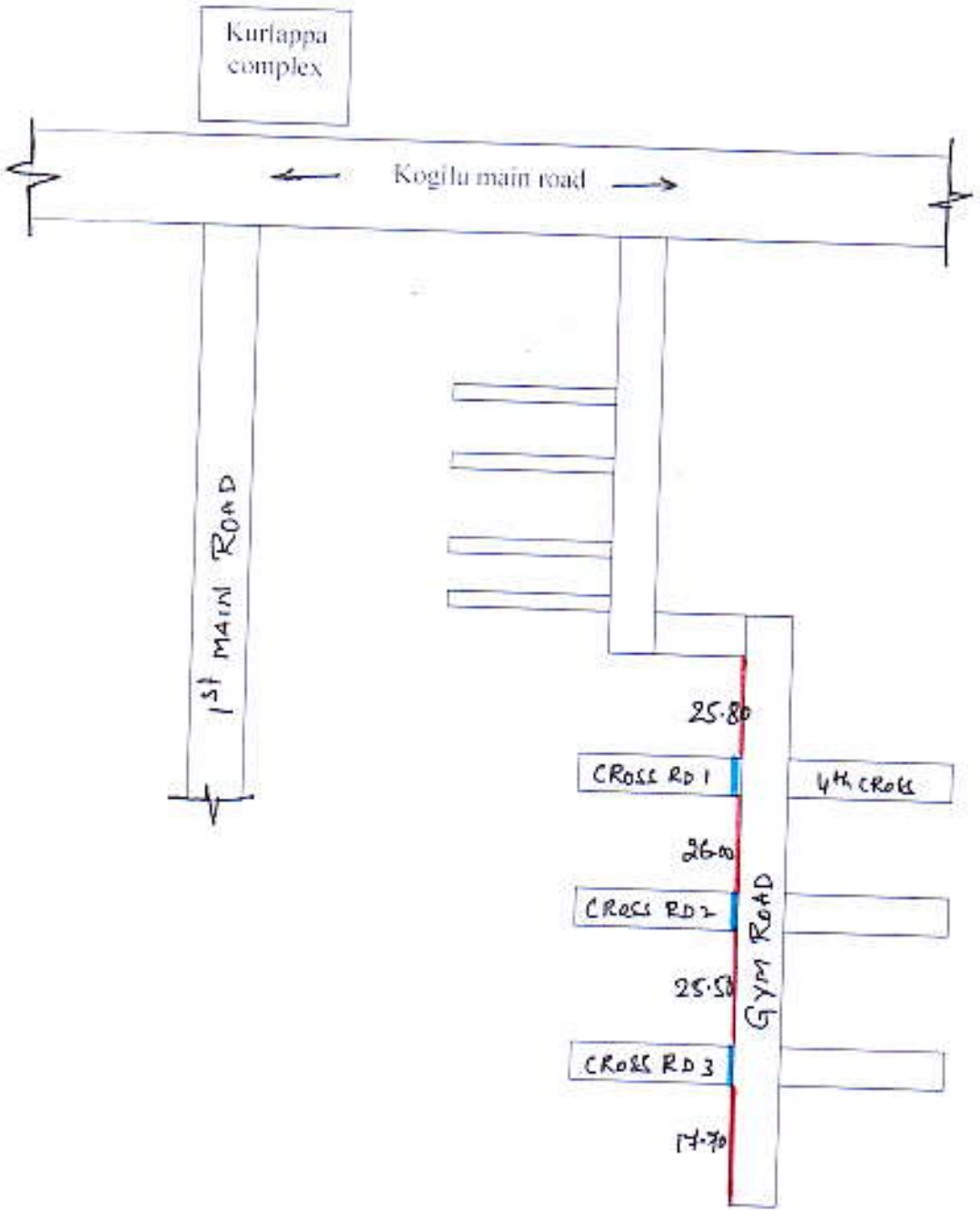
Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Approval Accorded for Rs "14.00" Lakhs
P0190
78 Dt: 29.10.14

14.00 Lakhs
Fourteen Lakhs
P.0190 — 2014-15
EE/MNTS/108/14-15
Dated 03-11-14 Rs. 14.00 Lakhs

NAME OF WORK: Improvements to roads and Construction of drains at Maruthinagara surrounding areas in ward No - 01 of Yelahanka Sub Division.



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Asst. Executive Engineer
Yelahanka Sub Division
(BBMP)
Yelahanka, Bangalore